 NCBI	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help




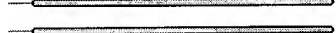



Query: gi|7024455 vacuolar-pyrophosphatase like protein [Arabidopsis thaliana]
Matching gi: 34098827, 18412180, 15450810

Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search	GI list
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200 BLAST hits to 76 unique species [Sort by taxonomy proximity](#)

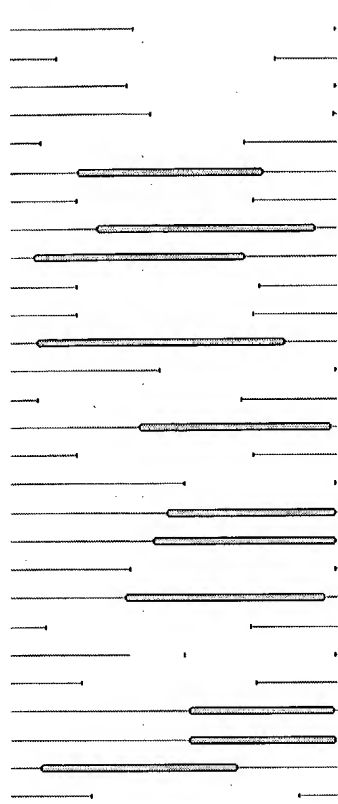
☐ Archaea ☒ Bacteria ☐ Metazoa ☐ Fungi ☒ Plants ☐ Viruses ☒ Other Eukaryotae

Keep only Cut-Off

802 aa	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
	Conserved Domain Database hits				
	4014	19	AAF31164	6901678	vacuolar-type H ⁺ -translocating ino
	3827	19	H96818	25290360	hypothetical protein F9K20.2 [impo
	3792	19	C86303	25290361	probable vacuolar-type H ⁺ -transloc
	3511	11	BAD28829	50252660	putative vacuolar-type H ⁺ -transloc
	1833	2	ZP_003309	49236935	COG3808: Inorganic pyrophosphatase
	1775	3	EAA16540	23479810	vacuolar-type H ⁺ pumping pyrophospl
	1774	2	Q8RCX1	33301193	Pyrophosphate-energized proton pump
	1573	1	EAJ18260	44425678	unknown [environmental sequence]
	1468	2	Q8PH20	33301190	Pyrophosphate-energized proton pump
	1466	2	Q8P5M6	33301189	Pyrophosphate-energized proton pump
	1466	2	ZP_003353	52007992	COG3808: Inorganic pyrophosphatase
	1463	2	ZP_003638	54031762	COG3808: Inorganic pyrophosphatase
	1449	2	ZP_002453	47575275	COG3808: Inorganic pyrophosphatase
	1444	2	ZP_001486	53731500	COG3808: Inorganic pyrophosphatase
	1435	2	ZP_002687	48764244	COG3808: Inorganic pyrophosphatase
	1430	2	Q8TJA8	33301195	Pyrophosphate-energized proton pump
	1430	2	NP_954331	39998380	V-type H ⁽⁺⁾ -translocating pyrophos
	1427	2	ZP_002955	48838581	COG3808: Inorganic pyrophosphatase
	1425	2	Q8PYZ7	33301191	Pyrophosphate-energized proton pump
	1423	2	Q68460	33301139	Pyrophosphate-energized proton pump
	1423	2	ZP_001504	53729931	COG3808: Inorganic pyrophosphatase
	1421	2	Q89K83	33301169	Pyrophosphate-energized proton pump
	1416	1	EAJ55177	44478178	unknown [environmental sequence]
	1415	1	EAJ91704	44532897	unknown [environmental sequence]
	1414	1	EAJ16449	44423034	unknown [environmental sequence]
	1407	2	YP_113715	53804412	V-type H ⁽⁺⁾ -translocating pyrophos
	1405	2	ZP_002998	48845538	COG3808: Inorganic pyrophosphatase
	1402	2	P60363	42558947	Pyrophosphate-energized proton pump
	1399	2	ZP_000544	46201733	COG3808: Inorganic pyrophosphatase
	1397	2	Q8G1E6	33301184	Pyrophosphate-energized proton pump
	1393	2	AC3400	25290364	inorganic diphosphatase (EC 3.6.1.1
	1393	2	Q8YGH4	33301205	Pyrophosphate-energized proton pump
	1384	2	Q898Q9	33301168	Pyrophosphate-energized proton pump
	1383	1	EAK42821	44605763	unknown [environmental sequence]
	1381	2	Q8VRZ3	33301204	Pyrophosphate-energized proton pump
	1371	2	Q82TF3	33301154	Pyrophosphate-energized proton pump
	1364	1	EAI83803	44376884	unknown [environmental sequence]
	1363	2	ZP_003295	49235481	COG3808: Inorganic pyrophosphatase
	1362	2	Q8KY01	33301186	Pyrophosphate-energized proton pump
	1357	2	YP_076391	51893700	inorganic H ⁺ pyrophosphatase [Symb
	1355	1	EAJ65935	44494705	unknown [environmental sequence]

1350	2	ZP_003054	48851197	COG3808: Inorganic pyrophosphatase
1349	1	EAI22457	44288763	unknown [environmental sequence]
1348	1	EAI52498	44332695	unknown [environmental sequence]
1347	2	AD2721	25290363	H ⁺ translocating pyrophosphate synt
1347	2	Q8UG67	33301197	Pyrophosphate-energized proton pump
1346	2	ZP_001944	45915706	COG3808: Inorganic pyrophosphatase
1343	2	Q983A3	33301213	Pyrophosphate-energized proton pump
1337	2	AAL69328	18419442	inorganic pyrophosphatase [Brucella
1323	2	Q8PYZ8	33301192	Pyrophosphate-energized proton pump
1323	2	ZP_003577	53796873	COG3808: Inorganic pyrophosphatase
1306	2	NP_618750	20092675	inorganic pyrophosphatase [Methano
1306	2	Q8TJA9	33301196	Pyrophosphate-energized proton pump
1305	2	ZP_001438	34762889	Inorganic pyrophosphatase [Fusobact
1304	2	Q8RHJ2	33301194	Pyrophosphate-energized proton pump
1304	1	EAJ99566	44544289	unknown [environmental sequence]
1297	2	YP_002219	45658133	H ⁺ -translocating pyrophosphatase [I
1295	2	Q9A8J0	33301214	Pyrophosphate-energized proton pump
1293	1	EAI41640	44317288	unknown [environmental sequence]
1291	2	ZP_002922	48835222	COG3808: Inorganic pyrophosphatase
1285	2	YP_097572	53711580	pyrophosphate-energized vacuolar me
1274	4	BAA83103	5708065	inorganic pyrophosphatase [Acetabul
1273	2	AAL69329	18419444	inorganic pyrophosphatase [Sinorhiz
1270	1	EAI22974	44289544	unknown [environmental sequence]
1265	1	EAH93872	44247216	unknown [environmental sequence]
1258	2	Q8A294	33301170	Pyrophosphate-energized proton pump
1257	3	NP_701702	23509034	vacuolar-type H ⁺ -translocating inor
1242	2	BAD36743	51100804	H ⁺ -pyrophosphatase [Streptomyces co
1239	2	Q9X913	33301218	Pyrophosphate-energized proton pump
1234	2	Q82EJ8	33301153	Pyrophosphate-energized proton pump
1233	2	Q8ZWI8	33301207	Pyrophosphate-energized proton pump
1232	2	AAF01029	6007754	vacuolar-type H ⁺ -pyrophosphatase [I
1216	1	EAK61687	44631962	unknown [environmental sequence]
1215	4	CAC44451	14970742	proton-translocating inorganic pyr
1211	1	EAI59484	44342693	unknown [environmental sequence]
1205	1	EAJ55115	44478090	unknown [environmental sequence]
1204	13	S54172	1076627	inorganic diphosphatase (EC 3.6.1.1
1201	14	T07801	7436043	probable inorganic diphosphatase (I
1200	1	EAJ01911	44402264	unknown [environmental sequence]
1200	11	XP_475605	50932155	putative inorganic diphosphatase (I
1198	1	EAI94390	44391481	unknown [environmental sequence]
1197	1	EAJ60574	44485787	unknown [environmental sequence]
1195	11	XP_476313	50933571	putative inorganic pyrophosphatase
1195	1	EAK52093	44618657	unknown [environmental sequence]
1194	14	BAA33149	3608171	proton-translocating inorganic pyr
1194	13	AAM97921	22532393	vacuolar proton-pumping PPase [Cher
1194	13	S42893	542059	inorganic diphosphatase (EC 3.6.1.1
1192	14	AAL11507	15982958	vacuolar H ⁺ -pyrophosphatase [Prunus
1192	1	EAI35850	44308869	unknown [environmental sequence]
1192	14	AAS66771	45479863	PPase [Hevea brasiliensis]
1191	1	EAJ07574	44410358	unknown [environmental sequence]
1190	13	CAA58700	1103712	inorganic pyrophosphatase [Nicotian
1189	11	S72526	7436041	inorganic diphosphatase (EC 3.6.1.1
1189	11	BAD37431	51535512	inorganic diphosphatase, H ⁺ -transl
1187	13	T14563	7436046	inorganic diphosphatase (EC 3.6.1.1
1187	13	S61423	2129950	inorganic diphosphatase (EC 3.6.1.1
1185	11	BAA31523	3298474	ovp1 [Oryza sativa]
1184	14	AAF69010	7739779	H ⁺ -pyrophosphatase [Vitis vinifera]
1184	11	BAD02277	38488590	vacuolar proton pyrophosphatase [O
1184	11	XP_464356	50905735	putative inorganic diphosphatase (C
1182	1	EAK24980	44580436	unknown [environmental sequence]
1181	2	Q9S5X0	33301216	Pyrophosphate-energized proton pump
1181	11	JC1466	322841	inorganic diphosphatase (EC 3.6.1.1
1181	11	Q06572	18274925	Pyrophosphate-energized vacuolar me
1180	13	S61422	2129949	inorganic diphosphatase (EC 3.6.1.1
1180	11	BAD36736	51090728	proton translocating pyrophosphata

	1179	14	T10841	7436048	inorganic diphosphatase (EC 3.6.1.1)
	1178	1	EAK22723	44577099	unknown [environmental sequence]
	1178	1	EAI69645	44356948	unknown [environmental sequence]
	1178	19	BAA32210	3402487	Vacuolar proton pyrophosphatase [A
	1178	14	AAL11506	15982956	vacuolar H ⁺ -pyrophosphatase [Prunus
	1178	19	AAO00841	27311751	Unknown protein [Arabidopsis thalia
	1176	1	EAJ01788	44402082	unknown [environmental sequence]
	1175	1	EAI30834	44301301	unknown [environmental sequence]
	1175	19	EAL84953	19310433	At1g15690/F7H2_3 [Arabidopsis thal:
	1174	11	NP_908801	34894952	putative H ⁺ -pyrophosphatase [Oryza
	1174	19	AAL57660	18086404	At1g15690/F7H2_3 [Arabidopsis thal:
	1173	14	BAC41250	25901033	vacuolar proton-inorganic pyrophos
	1173	11	CAF18416	41023649	proton translocating pyrophosphatas
	1173	13	S61424	2129948	inorganic diphosphatase (EC 3.6.1.1
	1171	1	EAI47398	44325495	unknown [environmental sequence]
	1171	11	AAQ19328	33465893	H ⁺ -pyrophosphatase [Oryza sativa (
	1170	6	BAA36841	4126976	vacuolar H ⁺ -pyrophosphatase [Chara
	1168	11	BAB18681	11527561	vacuolar proton-inorganic pyrophos
	1167	17	AAR08913	38045977	pyrophosphate-energized vacuolar me
	1165	1	EAI33679	44305552	unknown [environmental sequence]
	1165	1	EAJ14393	44420065	unknown [environmental sequence]
	1163	1	EAJ75616	44509104	unknown [environmental sequence]
	1162	2	AAR37891	40063035	V-type H ⁽⁺⁾ -translocating pyrophos
	1161	11	AAP06752	30027157	vacuolar proton-inorganic pyrophos
	1161	2	AAR38482	40063701	V-type H ⁽⁺⁾ -translocating pyrophos
	1158	2	AAR37713	40062836	V-type H ⁽⁺⁾ -translocating pyrophos
	1151	11	AAP55210	31580801	vacuolar proton-inorganic pyrophos
	1150	3	NP_702430	23509763	V-type H ⁽⁺⁾ -translocating pyrophos
	1148	3	AAD17215	4324984	proton-pumping vacuolar pyrophospha
	1143	1	EAK23404	44578090	unknown [environmental sequence]
	1142	13	T14564	7436047	inorganic diphosphatase (EC 3.6.1.1
	1141	1	EAI83511	44376475	unknown [environmental sequence]
	1138	2	NP_968591	42523211	vacuolar-type H ⁺ -pyrophosphatase [I
	1131	1	EAI27813	44296864	unknown [environmental sequence]
	1122	1	EAI21451	44287229	unknown [environmental sequence]
	1108	3	AAK38076	13661738	H ⁺ -translocating inorganic pyrophos
	1107	3	AAK38077	13661740	H ⁺ -translocating inorganic pyrophos
	1101	3	AAA19163	23483521	V-type H ⁽⁺⁾ -translocating pyrophos
	1094	3	AAF80381	8886133	vacuolar-type proton translocating
	1088	1	EAI85730	44379509	unknown [environmental sequence]
	1073	13	S61425	2118183	inorganic diphosphatase (EC 3.6.1.1
	1073	2	ZP_003123	48858370	COG3808: Inorganic pyrophosphatase
	1060	1	EAK36639	44596980	unknown [environmental sequence]
	1051	1	EAI25712	44293677	unknown [environmental sequence]
	1046	1	EAJ87632	44526920	unknown [environmental sequence]
	1044	1	EAI88433	44383438	unknown [environmental sequence]
	1042	3	AAK95376	21654895	vacuolar-type proton translocating
	1039	1	EAI40243	44315291	unknown [environmental sequence]
	1029	1	EAJ88465	44528163	unknown [environmental sequence]
	1023	1	EAJ29856	44442380	unknown [environmental sequence]
	1018	1	EAK11313	44560959	unknown [environmental sequence]
	1008	1	EAJ86088	44524652	unknown [environmental sequence]
	1004	1	EAI04212	44261837	unknown [environmental sequence]
	1002	1	EAK55999	44624064	unknown [environmental sequence]
	1000	1	EAI05133	44263211	unknown [environmental sequence]
	987	1	EAJ47978	44468131	unknown [environmental sequence]
	979	11	AAA80347	1049255	H ⁺ -pyrophosphatase
	977	1	EAB80150	43026899	unknown [environmental sequence]
	968	1	EAJ44468	44463066	unknown [environmental sequence]
	961	1	EAI33086	44304678	unknown [environmental sequence]
	949	1	EAK08054	44556448	unknown [environmental sequence]
	944	1	EAJ64852	44493108	unknown [environmental sequence]
	938	1	EAK18536	44571100	unknown [environmental sequence]
	935	1	EAI69120	44356228	unknown [environmental sequence]
	933	1	EAJ28860	44440915	unknown [environmental sequence]



920	1	<u>EAI32420</u>	<u>44303671</u>	unknown	[environmental sequence]
919	1	<u>EAJ31126</u>	<u>44444256</u>	unknown	[environmental sequence]
916	1	<u>EAJ25540</u>	<u>44436124</u>	unknown	[environmental sequence]
915	1	<u>EAI78065</u>	<u>44368705</u>	unknown	[environmental sequence]
913	1	<u>EAJ61570</u>	<u>44487239</u>	unknown	[environmental sequence]
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899	1	<u>EAI39827</u>	<u>44314693</u>	unknown	[environmental sequence]
897	1	<u>EAK37474</u>	<u>44598192</u>	unknown	[environmental sequence]
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893	1	<u>EAK54443</u>	<u>44621981</u>	unknown	[environmental sequence]
892	1	<u>EAJ64097</u>	<u>44491957</u>	unknown	[environmental sequence]
890	1	<u>EAJ02120</u>	<u>44402565</u>	unknown	[environmental sequence]
887	1	<u>EAJ11810</u>	<u>44416736</u>	unknown	[environmental sequence]
884	1	<u>EAK34717</u>	<u>44594301</u>	unknown	[environmental sequence]
879	1	<u>EAI53943</u>	<u>44334719</u>	unknown	[environmental sequence]
874	1	<u>EAI85913</u>	<u>44379756</u>	unknown	[environmental sequence]
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870	1	<u>EAJ66515</u>	<u>44495569</u>	unknown	[environmental sequence]
868	1	<u>EAK33439</u>	<u>44592397</u>	unknown	[environmental sequence]
860	1	<u>EAK61059</u>	<u>44631069</u>	unknown	[environmental sequence]
860	1	<u>EAI23534</u>	<u>44290384</u>	unknown	[environmental sequence]
857	1	<u>EAK01364</u>	<u>44546905</u>	unknown	[environmental sequence]
843	1	<u>EAJ73590</u>	<u>44506105</u>	unknown	[environmental sequence]
833	1	<u>EAI04882</u>	<u>44262836</u>	unknown	[environmental sequence]
830	1	<u>EAI92269</u>	<u>44388474</u>	unknown	[environmental sequence]
829	1	<u>EAJ25035</u>	<u>44435401</u>	unknown	[environmental sequence]